

DIABETES

LITERATURE INDEX

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DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

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National Institute of Arthritis, Metabolism, and Digestive Diseases

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PREFACE

Diabetes Literature Index is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

Scientific Communications Office
Diabetes Literature Index
National Institute of Arthritis,
Metabolism, and Digestive Diseases
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Washington, D.C. 20402

The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

EDITORIAL NOTE

Diabetes Literature Index, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated condi-

tions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

Hierarchical Subject Index: This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

Key Word Index: For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within the title itself. Words which have not ap-

peared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

Author Index: Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

Arrangement of the Hierarchical Index

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1.C.1.7	INSULIN, URINE	1.E.6.9	HYPOGLYCEMIA, THERAPY
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- 1.F.9.3 DIABETES, INSULIN AND THERAPY**
- 1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE**
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1.F.9.4.2 TOLBUTAMIDE

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SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS

2.A ENDOCRINE PANCREAS

2.A.1 ISLETS (SEE SEC. 1.A)

2.A.2 INSULIN (SEE SEC. 1.C)

2.A.3 GLUCAGON (SEE SEC. 1.D)

2.B ADRENAL GLANDS

EFFECTS OF STARVATION IN RATS ON SERUM LEVELS OF FOLLICLE STIMULATING HORMONE, LUTEINIZING HORMONE, THYROTROPIN, GROWTH HORMONE AND PROLACTIN; RESPONSE TO LH-RELEASING HORMONE AND THYROTROPIN-RELEASING HORMONE. Campbell GA, Kurcz M, Marshall S, Meites J *Endocrinology* 100: 580-7, Feb 77 (Eng) *DL/77DEC15

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2.B.1 ADRENAL CORTEX

2.B.2 ADRENAL CORTEX HORMONES

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LONG TERM NON-SELECTIVE AND CARDIOSELECTIVE BETA-RECEPTOR BLOCKADE IN HYPERTENSIVE PATIENTS. EFFECTS ON CIRCULATORY PARAMETERS, CATECHOLAMINES AND RENIN ACTIVITY UNDER BASAL CONDITIONS AND IN CONNECTION WITH EXERCISE AND HYPOGLYCEMIA. Hansson BG *Acta Med Scand [Suppl]* 1-61, 1976 (Eng) *DL/77DEC129

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2.F.3.3.2 PROGESTATIONAL HORMONES

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HLA

SEE HUMAN LEUKOCYTE ANTIGEN

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ACIDOSIS, DIABETIC (blood, drug therapy); ADULT; BICARBONATES (therapeutic use); CASE REPORT; DIABETES MELLITUS (blood, drug therapy); HUMAN; HYDROGEN-ION CONCENTRATION (physiology); MALE; MIDDLE AGE.

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CHANGES IN THE PROCESS OF AGING. Ahmad T *Bangladesh Med Res Bull* 2: 52-8, Jun 76 (Eng) *DL/77DEC350

ADULT; AGED; AGING; ANTHROPOMETRY; BILIRUBIN (blood); BLOOD SUGAR (analysis); BLOOD UREA NITROGEN; CALORIC INTAKE; CHOLESTEROL (blood); FEMALE; HUMAN; MALE; MIDDLE AGE.

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OUR EXPERIENCE IN THE SUBSTITUTION TREATMENT OF PITUITARY DWARFISM. Aicardi G, Naselli A, Cavaliere G *Minerva Pediatr* 28: 1088-92, 19 May 76 (Ita) *DL/77DEC102

ADOLESCENCE; CHILD; DWARFISM; PITUITARY (drug therapy); FEMALE; HUMAN; MALE; SOMATOTROPIN (administration & dosage, therapeutic use); TIME FACTORS.

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ADENOSINE TRI-PHOSPHATE (metabolism); ALANINE (metabolism); ANIMAL; ATRACTYLOSIDE (pharmacodynamics); BIOLOGICAL TRANSPORT, ACTIVE; COENZYME A (pharmacodynamics); GLUCOSE (metabolism); KINETICS; LACTATES (metabolism); MALE; MEMBRANES (drug effects, metabolism); MITOCHONDRIA, LIVER (drug effects, metabolism); OLEIC ACIDS (pharmacodynamics); PYRUVATES (metabolism); RATS; UREA (metabolism).

Akhtar MS

6-PHOSPHOGLUCONATE/GLUCOSE-6-PHOSPHATE RATIO IN RAT PANCREATIC ISLETS DURING INHIBITION OF INSULIN RELEASE BY EXOGENOUS INSULIN. Akhtar MS, Verspohl E, Hegner D, Ammon HP *Diabetes* 26: 857-63, Sep 77 (Eng) DL/77DEC464

ANIMAL; CARBON DIOXIDE; FEMALE; GLUCONATES (metabolism); GLUCOSE (metabolism, pharmacodynamics); GLUCOSEPHOSPHATES (metabolism); INSULIN (pharmacodynamics, secretion); ISLANDS OF LANGERHANS (drug effects, metabolism); KINETICS; MALE; NAD (metabolism); NADP (metabolism); OXIDATION-REDUCTION; PENTOSEPHOSPHATES (metabolism); RATS.

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AGE FACTORS; BLOOD SUGAR (metabolism); BLOOD; CATECHOLAMINES (blood); DIABETIC COMA (diagnosis, mortality, physiopathology, therapy); GLUCAGON (blood); HUMAN; HYDROCORTISONE (blood); HYDROGEN-ION CONCENTRATION (physiology); HYPERGLYCEMIA (physiopathology); INSULIN (blood, deficiency, therapeutic use); KETONE BODIES (metabolism); POTASSIUM (blood); REVIEW.

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ANIMAL; ARTIFICIAL ORGANS; AUTOANALYSIS; BLOOD SUGAR (metabolism); COMPUTERS, DIGITAL; DIABETES MELLITUS (physiopathology, therapy); DISEASE MODELS, ANIMAL; DOGS; EXERTION; GLUCAGON (blood); GLUCOSE TOLERANCE TEST; GLUCOSE (therapeutic

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use); HOMEOSTASIS; HUMAN; ISLANDS OF LANGERHANS (physiology, physiopathology); METHODS; PANCREAS; REVIEW; TIME FACTORS.

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[HEMODIALYSIS THERAPY OF BIGUANIDE-INDUCED LACTATE ACIDOSIS (LETTER)] Althoff PH, Fassbinder W, Neubauer M, Koch KM, Schoffing K *Dtsch Med Wochenschr* 102: 255, 18 Feb 77 (Ger) *DL/77DEC13

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THE INFLUENCE OF ATROPINE ON INSULIN- AND 2-DEOXY-D-GLUCOSE (2-DG)-INDUCED GASTRIC ACID SECRETION AND GASTRIN RELEASE IN DOGS. Ornholt J, Brandsborg O, Brandsborg M, Lovgreen NA, Amstrup E *J Surg Res* 23: 246-50, Oct 77 (Eng) DL/77DEC595

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[INSULIN SECRETING ISLET CELL CARCINOMA TREATED WITH STREPTOZOTOCIN (A PROPOSE OF A CASE)] Chevrel JP, Amouroux J, Attali JR, Izou H *Med Chir Dig* 5: 25-31, 1976 (Fre) *DL/77DEC99

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THE BETA-ADRENERGIC RECEPTORS IN PERTUSSIS. Badr-El-Din MK, Aref GH, Mazloum H, El-Towsey YA, Kassem AS, Abdel-Moneim MA, Abbassy AA *J Trop Med Hyg* 79: 213-7, Oct 76 (Eng) *DL/77DEC92

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ANEMIA (etiology); ANIMAL; BLOOD SUGAR (analysis); ENGLISH ABSTRACT; ILEUM (surgery); JEJUNUM (surgery); LIPIDS (blood); OBESITY (therapy); POSTOPERATIVE COMPLICATIONS; RATS; TIME FACTORS.

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UNEXPLAINED HYPERINSULINEMIA IN NORMAL AND PREDIABETIC PIMA INDIANS COMPARED WITH NORMAL CAUCASIANS. AN EXAMPLE OF RACIAL DIFFERENCES IN INSULIN SECRETION. Aronoff SL, Bennett PH, Gordon P, Rushforth N, Miller M *Diabetes* 26: 827-40, Sep 77 (Eng) DL/77DEC461

ADOLESCENCE; ADULT; ARIZONA; CAUCASIAN RACE; COMPARATIVE STUDY; DIABETES MELLITUS (metabolism); FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; HYPERINSULINISM (etiology); INDIANS, NORTH AMERICAN; INSULIN (secretion); MALE; MIDDLE AGE; PREDIABETIC STATE (complications, familial & genetic, metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.)

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[NITROGEN, CARBOHYDRATE AND LIPID METABOLIC INDICES IN MAN DURING A PROLONGED STAY UNDER HYPERBARIC CONDITIONS] Petrovykh VA, Shovkoplias OA, Mikhelson DA, Aronova EN *Kosm Biol Aviakosm Med* 11: 48-50, Jan-Feb 77 (Rus) *DL/77DEC269

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[HUMAN PLACENTAL LACTOGEN AND CHORIONIC GONADOTROPIN IN DIABETIC PREGNANCIES (AUTHORS TRANSL)] Artner J, Baumung H, Ogris E *Wien Klin Wochenschr* 89: 524-31, 12 Aug 77 (Ger) DL/77DEC754

ENGLISH ABSTRACT; FEMALE; GONADOTROPINS, CHORIONIC (blood); HUMAN; PLACENTAL LACTOGEN (blood); PREGNANCY IN DIABETES (blood); PREGNANCY TRIMESTER, FIRST; PREGNANCY TRIMESTER, SECOND; PREGNANCY TRIMESTER, THIRD; PREGNANCY.

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AN ASSAY FOR PLASMA SOMATOMEDIN: [3H]THYMIDINE INCORPORATION BY ISOLATED RABBIT CHONDROCYTES. Ashton IK, Francis MJ *J Endocrinol* 74: 205-12, Aug 77 (Eng) DL/77DEC521

ACROMEGALY (blood); ANIMAL; BIOLOGICAL ASSAY; CARTILAGE (cytology, metabolism); GLUCOSE (pharmacodynamics); HEAT; HUMAN; HYPOPHYSECTOMY (blood); INSULIN (pharmacodynamics); RABBITS; SOMATOMEDIN (blood); SOMATOTROPIN (pharmacodynamics); THYMIDINE (metabolism).

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EFFECT ON PANCREATIC BLOOD FLOW AND INSULIN OUTPUT OF INFUSIONS OF AMINOPHYLLINE, GALACTOSE AND GALACTOSE PLUS AMINOPHYLLINE INTO AN ISOLATED IN SITU PORTION OF PANCREAS. Coddling JA, Ashworth MA, Hunter J, Haist RE *Horm Metab Res* 9: 261-6, Jul 77 (Eng) DL/77DEC478

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BLINDNESS FROM METABOLIC CATARACT—A PRESENTING MANIFESTATION OF DIABETES MELLITUS. Asmal AC, Winning TJ, Leary WP, Dayal B *S Afr Med J* 52: 269-70, 6 Aug 77 (Eng) DL/77DEC713

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ADULT; FEMALE; FETAL BLOOD (metabolism); GASTRIN (blood); GASTROINTESTINAL HORMONES (blood); GASTROINTESTINAL SYSTEM (metabolism); HUMAN; INFANT, NEWBORN; PLACENTA (metabolism); PREGNANCY; VASOACTIVE INTESTINAL PEPTIDE (blood).

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DIHYDROXYCHOLECALCIFEROLS

(pharmacodynamics); FEMALE;

HYDROXYCHOLECALCIFEROLS

(pharmacodynamics); ISLANDS OF

LANGERHANS (drug effects, pathology,

ultrastructure); MALE; MICE; MICROSCOPY,

ELECTRON; MITOCHONDRIA (pathology,

ultrastructure); TIME FACTORS.

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ALLOXAN DIABETES (physiopathology);

ALLOXAN (pharmacodynamics); ANIMAL;

BLOOD SUGAR (analysis); CALCIUM (blood,

pharmacodynamics);

DIHYDROXYCHOLECALCIFEROLS (blood,

pharmacodynamics); FEMALE; GLYCOSURIA;

HYDROXYCHOLECALCIFEROLS

(pharmacodynamics); ISLANDS OF

LANGERHANS (drug effects, ultrastructure);

MALE; MICE; MICROSCOPY, ELECTRON;

PARATHYROID HORMONE (blood,

pharmacodynamics); TIME FACTORS.

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BRAIN (anatomy & histology, physiology);

DRINKING BEHAVIOR (physiology);

ELECTROCOAGULATION; FEEDING

BEHAVIOR (physiology); FEMALE;

HAMSTERS; HYPOPHYSECTOMY; INSULIN

(blood); MESOCRINETUS;

NEUROSECRETORY SYSTEMS (physiology);

PITUITARY GLAND, ANTERIOR (metabolism);

SOMATOTROPIN (blood, metabolism);

STEREOTAXIC TECHNIQUES.

Borghini L

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QUANTITATIVE ANALYSIS OF THE CHANGE OF METABOLITE FLUXES ALONG THE PENTOSE PHOSPHATE AND GLYCOLYTIC PATHWAYS IN TETRAHYMENA IN RESPONSE TO CARBOHYDRATES. Borowitz MJ, Stein RB, Blum JJ *J Biol Chem* 252: 1589-605, 10 Mar 77 (Eng) *DL/77DEC231

ADENOSINE TRIPHOSPHATE (metabolism);

ANIMAL; COMPUTERS, DIGITAL; FRUCTOSE

(pharmacodynamics); GLUCOSE

(pharmacodynamics); GLYCERIN

(pharmacodynamics); GLYCOGEN

(biosynthesis); GLYCOLYSIS; KINETICS; LIPIDS (biosynthesis); MODELS, BIOLOGICAL; MONOSACCHARIDES (pharmacodynamics); PENTOSEPHOSPHATES (metabolism); RIBOSE (pharmacodynamics); TETRAHYMENA PYRIFORMIS (metabolism); TRANSCRIPTION, GENETIC; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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Boscherini B

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DRUG RESISTANCE; DWARFISM, PITUITARY

(drug therapy, urine); HUMAN;

HYDROXYPROLINE (urine); SOMATOTROPIN

(therapeutic use).

Bosello O

[JEJUNUM-ILEAL BYPASS IN THE TREATMENT OF EXPERIMENTAL OBESITY IN THE RAT. (II. LONG-TERM BEHAVIOR OF SOME BIOHUMORAL PARAMETERS)] Armetini F, Bosello O, Baggio E, Belligoli AM, Faccioli G, Ottolenghi A *Chir Patol Sper* 24: 111-8, Apr 76 (Ita) *DL/77DEC180

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ADULT; AGED; ARGININE

(pharmacodynamics); BLOOD SUGAR;

CHRONIC DISEASE; DEPRESSION;

CHEMICAL; FATTY ACIDS, NONESTERIFIED

(blood); GLUCAGON (blood); HUMAN;

INSULIN (blood, pharmacodynamics); MALE;

MIDDLE AGE; PANCREATITIS (blood);

SOMATOTROPIN RELEASE INHIBITING

HORMONE (pharmacodynamics);

SOMATOTROPIN (blood).

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BIGUANIDES (pharmacodynamics); BUFORMIN

(pharmacodynamics); DEPRESSION,

CHEMICAL; DIABETES MELLITUS (blood);

HUMAN; LACTATES (blood); METABOLIC

CLEARANCE RATE (drug effects);

METFORMIN (pharmacodynamics);

PHENFORMIN (pharmacodynamics).

Bottazzo GF

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AUTOANTIBODIES; DIABETES MELLITUS

(immunology); HUMAN; ISLANDS OF

LANGERHANS (immunology); VIRUS

DISEASES (complications).

Bottone E

[CORTICOSTEROIDS AND SECRETION OF SOMATOTROPIN. PRELIMINARY STUDY] Bottone E, Macchia PA, Saggese G, Materazzi F *Minerva Pediatr* 28: 1112-5, 19 May 76 (Ita) *DL/77DEC104

ANIMAL; CORTICOTROPIN

(pharmacodynamics); HUMAN; PITUITARY

GLAND (metabolism); RATS; SOMATOTROPIN

RELEASING HORMONE (metabolism);

SOMATOTROPIN (biosynthesis).

Bourrinet P

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ACETATES (metabolism); ANIMAL; AORTA

(drug effects, metabolism); CHOLESTEROL

ESTERS (metabolism); DIGLYCERIDES

(metabolism); FATTY ACIDS, ESSENTIAL

(pharmacodynamics); FATTY ACIDS,

NONESTERIFIED (metabolism); IN VITRO;

KINETICS; LIPIDS (metabolism); MONOGRAPH

(mortality); PERFUSION;

PHOSPHATIDYLCHOLINES

(pharmacodynamics); PHOSPHOLIPIDS

(metabolism); RABBITS; TRIGLYCERIDES

(metabolism).

Boxill GC

PROLONGED SUPPRESSION OF PITUITARY AND PANCREATIC HORMONE RELEASE BY A SOMATOSTATIN ANALOG. Lien EL, Fenichel RL, Grant NH, Boxill GC, Greenwood J, Yardley JP *Biochem Biophys Res Commun* 77: 1317-25, 22 Aug 77 (Eng) DL/77DEC844

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ADOLESCENCE; ADULT; DIABETES

MELLITUS (blood, diagnosis); GLUCOSE

TOLERANCE TEST; HUMAN; INSULIN

(blood).

Brachet EA

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AMINO ACID SEQUENCE; ANALGESICS AND

ANTIPYRETICS; ANIMAL; BINDING,

COMPETITIVE; LIPOTROPIN (isolation &

purification, physiology); MOLECULAR

MODELS; MONOGRAPH (mortality);

NALOXONE (metabolism); PEPTIDES (analysis,

physiology); PITUITARY GLAND (analysis);

PROTEIN CONFORMATION; RECEPTORS,

NARCOTIC (metabolism); SWINE.

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Braendli B

AMINES (analysis); CATTLE; CHEMISTRY; HYDROGEN-ION CONCENTRATION (physiology); INSULIN; LYSINE (analysis); METHYLATION; NUCLEAR MAGNETIC RESONANCE; PROTEIN CONFORMATION.

Braendli B

[SIDE EFFECT OF ORAL ANTIDIABETIC DRUGS (AUTHORS TRANSL.) Braendli B *Praxis* 66: 930-4, 26 Jul 77 (Ger) DL/77DEC673
ADMINISTRATION, ORAL; ADULT; AGED; CASE REPORT; DERMATITIS
MEDICAMENTOSA (etiology); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPOGLYCEMIC AGENTS (adverse effects); MALE; MIDDLE AGE; PAIN (chemically induced); PREGNANCY; TIME FACTORS; VERTIGO (chemically induced).

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ADOLESCENCE; ADULT; BLOOD SUGAR (metabolism); FEMALE; GLUCOSE TOLERANCE TEST; HEROIN ADDICTION (blood); HUMAN; INSULIN (blood); MALE.

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ERYTHROBLASTOSIS, FETAL (diagnosis, prevention & control); FEMALE; HUMAN; HYALINE MEMBRANE DISEASE (therapy); HYPERBILIRUBINEMIA (therapy); INFANT CARE; INFANT, LOW BIRTH WEIGHT; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES; INFECTION (prevention & control); JAUNDICE, NEONATAL (therapy); PARENTERAL FEEDING; PREGNANCY IN DIABETES (therapy); PREGNANCY; VIRUS DISEASES (therapy).

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ANIMAL; DIABETIC NEPHROPATHIES (pathology); DISEASE MODELS, ANIMAL; MALE; RATS.

Breuer RI

SERUM GLUCOSE, INSULIN, TOTAL, PANCREATIC AND ENTERIC GLUCAGON IN DOGS BEFORE AND AFTER PANCREATOTOMY, IN PATIENTS WITH GASTRECTOMY AND PYLOROPLASTY AND IN DIABETIC CHILDREN. EFFECTS OF INSULIN AND OF SECRETIN. Matsuyama T, Hoffman WH, Breuer RI, Zuckerman L, Lawrence AM, Foa PP *Mater Med Pol* 9: 124-9, Apr-Jun 77 (Eng) DL/77DEC600

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EFFECTS OF TOBACCO SMOKE ON CHEMOTAXIS AND GLUCOSE METABOLISM OF POLYMORPHONUCLEAR LEUKOCYTES. Bridges RB, Kraal JH, Huang LJ, Chancellor BM *Infect Immun* 15: 115-23, Jan 77 (Eng) *DL/77DEC35

ADULT; BLOOD SUGAR (metabolism); CHEMOTAXIS, LEUKOCYTE; CYSTEINE (therapeutic use); CYTOTOXICITY TESTS, IMMUNOLOGIC; FRACTIONATION; HEXOSEPHOSPHATES (blood); HUMAN; LACTATES (biosynthesis); MALE; NEUTROPHILS (metabolism); SMOKING; TOBACCO.

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CARBOXYLIC ACIDS (pharmacodynamics); CINNAMATES (pharmacodynamics); CYANATES (pharmacodynamics); KINETICS; LACTATES (metabolism); MALATE DEHYDROGENASE (metabolism); MITOCHONDRIA (drug effects, metabolism); MUTATION, OXYGEN CONSUMPTION (drug effects); PYRUVATE DEHYDROGENASE COMPLEX (metabolism); PYRUVATES (metabolism); SACCHAROMYCES CEREVISIAE (drug effects, metabolism); SPECIES SPECIFICITY.

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PERIODIC LATERALIZED EPILEPTIFORM DISCHARGES (PLEDS) AND NYSTAGMUS RETRACTORIUS. Young GB, Brown JD, Bolton CF, Sibbald WM *Ann Neurol* 2: 61-2, Jul 77 (Eng) DL/77DEC824

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[GLYCOREGULATION DURING IV INFUSION OF SALBUTAMOL IN NORMAL AND OBESE WOMEN (PROCEEDINGS)] Kuhn JM, Courtois H, Brunelle P, Schrub JC *Diabete Metab* 2: 150-1, Sep 76 (Fre) *DL/77DEC28

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ADIPOSE TISSUE (metabolism, ultrastructure); ANIMAL; BINDING SITES; CALCIUM (metabolism); CATIONS, DIVALENT; ENDOPLASMIC RETICULUM (metabolism); HYDROGEN-ION CONCENTRATION (physiology); IN VITRO; KINETICS; MAGNESIUM (pharmacodynamics); MALE; MICROSOMES (metabolism); RATS; SARCOPLASMIC RETICULUM (drug effects); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Bruschede GY

LIPOPROTEIN-MEDIATED REGULATION OF 3-HYDROXY-3-METHYLGLUTARYL COENZYME A REDUCTASE ACTIVITY AND CHOLESTERYL ESTER METABOLISM IN THE ADRENAL GLAND OF THE RAT. Balasubramaniam S, Goldstein JL, Faust JR, Bruschede GY, Brown MS *J Biol Chem* 252: 1771-9, 10 Mar 77 (Eng) *DL/77DEC233

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Bryla J

THE STIMULATORY EFFECT OF GLUCAGON AND DIBUTYRYL CYCLIC AMP ON UREOGENESIS AND GLUCONEOGENESIS IN RELATION TO THE MITOCHONDRIAL ATP CONTENT. Bryla J, Harris EJ, Plumb JA *FEBS Lett* 80: 443-8, 15 Aug 77 (Eng) DL/77DEC444

ADENINE NUCLEOTIDES (metabolism); ANIMAL; BLOOD SUGAR (metabolism); CITRULLINE (metabolism); DIBUTYRYL CYCLIC AMP (pharmacodynamics); FASTING; GLUCAGON (pharmacodynamics); GLUCOSE (biosynthesis); GLUTAMATES (metabolism); GLUTAMINE (metabolism); HYDROXYBUTYRATES (metabolism); LIVER (drug effects, metabolism); MALATES (metabolism); MITOCHONDRIA, LIVER (drug effects, metabolism); OXYGEN CONSUMPTION (drug effects); PYRUVATES (metabolism); RATS; SUCCINATES (metabolism); UREA (metabolism).

Bucher NL

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ANIMAL; DRUG SYNERGISM; DNA (biosynthesis); GLUCAGON (blood, pharmacodynamics); HEPATECTOMY; HEPATITIS, VIRAL, ANIMAL (blood); INSULIN (blood, pharmacodynamics); LIVER REGENERATION (drug effects); MALE; RATS; STIMULATION, CHEMICAL; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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AMINO ACID METABOLISM, INBORN ERRORS (metabolism); ANEMIA (familial & genetic); ANIMAL; CATALASE (deficiency); DIABETES MELLITUS (familial & genetic); DISEASE MODELS, ANIMAL; ENZYMES (deficiency); FEMALE; GLYCOGENOSIS 8 (familial & genetic); HISTIDINE (blood); HUMAN; HYPERLIPIDEMIA (familial & genetic); METABOLISM, INBORN ERRORS (metabolism); MICE; MUTATION; NERVOUS SYSTEM DISEASES (familial & genetic); NUTRITION; OBESITY (familial & genetic); PARABIOSIS; PREGNANCY; REVIEW; SYNDROME.

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DIABETIC NEUROPATHIES (diagnosis); HUMAN; OCULOMOTOR PARALYSIS (diagnosis, etiology).

Burkle PA

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ADULT; ARTERIAL OCCLUSIVE DISEASES (metabolism); FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; MALE; MIDDLE AGE; VASCULAR DISEASES (metabolism).

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Cabanne EA

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Cade R

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Campbell GA

EFFECTS OF STARVATION IN RATS ON SERUM LEVELS OF FOLLICLE STIMULATING HORMONE, LUTEINIZING HORMONE, THYROTROPIN, GROWTH HORMONE AND PROLACTIN; RESPONSE TO LH-RELEASING HORMONE AND THYROTROPIN-RELEASING HORMONE. Campbell GA, Kurcz M, Marshall S, Meites J *Endocrinology* 100: 580-7, Feb 77 (Eng) *DL/77DEC15

ADRENAL GLANDS (anatomy & histology, drug effects); ANIMAL; BODY WEIGHT (drug effects); FSH (blood); LH (blood); LH-FSH RELEASING HORMONE (pharmacodynamics); MALE; ORGAN SPECIFICITY; ORGAN WEIGHT (drug effects); PROLACTIN (blood); PROSTATE (anatomy & histology, drug effects); RATS; SEMEN (drug effects); SEMINAL VESICLES (anatomy & histology, drug effects); SOMATOTROPIN (blood); STARVATION; TESTIS (anatomy & histology, drug effects); THYROTROPIN RELEASING HORMONE (pharmacodynamics); THYROTROPIN (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Campbell H

WHO IS AT RISK OF A CORONARY KHOSLA T, Newcombe RG, Campbell H *Br Med J* 1: 341-4, 5 Feb 77 (Eng) *DL/77DEC171

Canali M

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Canalis EM

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ANIMAL; BLOOD; BONE AND BONES (metabolism); COLLAGEN (biosynthesis); CORTICOSTERONE (pharmacodynamics); CULTURE MEDIA; FETUS; HYPOPHYSECTOMY; IN VITRO; INSULIN (pharmacodynamics); PROLINE (metabolism); PROTEINS (metabolism); RATS; SOMATOMEDIN (pharmacodynamics); SOMATOTROPIN (pharmacodynamics); THYROXINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Canivet J

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EFFECT OF SOMATOSTATIN ON PLASMA C-PEPTIDE IMMUNOREACTIVITY IN NORMAL MAN. Canivet J, Brisson C, Gauville C *Diabete Metab* 3: 109-12, Jun 77 (Eng) DL/77DEC446

Cannon B

BLOOD SUGAR (metabolism); BODY WEIGHT; C-PEPTIDE (blood, immunology); GLUCOSE (diagnostic use); HUMAN; INSULIN (blood); MALE; MIDDLE AGE; PEPTIDES (blood); RADIOIMMUNOASSAY; SOMATOTROPIN RELEASE INHIBITING HORMONE (diagnostic use).

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ANIMAL; BINDING SITES; BROWN FAT (drug effects, metabolism); CARBONYL CYANIDE P-TRIFLUOROMETHOXY-PHENYLHYDRAZONE (pharmacodynamics); COENZYME A (pharmacodynamics, physiology); GUANINE NUCLEOTIDES (metabolism); HAMSTERS; KINETICS; MITOCHONDRIA (drug effects, metabolism); PALMITIC ACIDS (pharmacodynamics, physiology).

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SOMATOTROPIC RESPONSE IN PATIENTS WITH SELLAR AND PERISSELLAR PATHOLOGY. Comini E, Janches M, Caputo J, Andrada JA *Medicina (B Aires)* 37: 106-11, Mar-Apr 77 (Eng) DL/77DEC614

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IDENTIFICATION OF BLOOD-SINUSOIDAL PLASMA-MEMBRANE FRACTIONS FROM RAT LIVER HOMOGENATES BY RADIOIODINATED-LIGAND BINDING. Carey F, Evans WH *Biochem Soc Trans* 5: 103-4, 1977 (Eng) DL/77DEC454

ANIMAL; CELL MEMBRANE (metabolism, ultrastructure); GLUCAGON (metabolism); IODOPROTEINS; LIGANDS; LIVER (blood supply, metabolism); PLANT AGGLUTININS; PROTEIN BINDING; RATS.

Carlson LA

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(blood, drug therapy); VINCRISTINE (diagnostic use, therapeutic use).

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CASE REPORT; ENGLISH ABSTRACT; FEMALE; FOLLOW-UP STUDIES; HUMAN; ISLET CELL TUMOR (drug therapy); NEOPLASM METASTASIS; PANCREATIC NEOPLASMS (drug therapy); STREPTOZOTOCIN (therapeutic use).

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metabolism); OXIDATION-REDUCTION; PALMITIC ACIDS (metabolism); RATS.

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ADOLESCENCE; ADULT; AGED; BLACKS; CHILD; CHILD, PRESCHOOL; DIABETIC RETINOPATHY (occurrence); EYE DISEASES (occurrence); GLAUCOMA (occurrence); HUMAN; INFANT; MACULAR DEGENERATION (occurrence); REFRACTIVE ERRORS (occurrence); RETINAL DETACHMENT (occurrence); RHODESIA; STRABISMUS (occurrence).

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ADIPOSE TISSUE (drug effects, physiology); ANIMAL; BINDING, COMPETITIVE; CELL MEMBRANE (drug effects, metabolism); HEART ATRIUM (drug effects, metabolism); HEART (drug effects); HEART (physiology); KINETICS; MALE; ORGAN WEIGHT; PHENTOLAMINE (metabolism); PROPRANOLOL (metabolism); PROPYLTHIOURACIL (pharmacodynamics); RATS; RECEPTORS, ADRENERGIC (drug effects); THYROXINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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AMINO ACIDS (blood, metabolism, urine); AMNIOTIC FLUID (metabolism); ANIMAL; DIETARY PROTEINS; FEMALE; FETAL BLOOD (metabolism); FETUS (metabolism); GESTATIONAL AGE; HUMAN; INSULIN (physiology); MATERNAL-FETAL EXCHANGE; PHENYLALANINE (metabolism); PLACENTA (physiology); PREGNANCY TRIMESTER, SECOND; PREGNANCY TRIMESTER, THIRD; PREGNANCY; REVIEW; TIME FACTORS; UMBILICAL ARTERIES.

Coddling JA

EFFECT ON PANCREATIC BLOOD FLOW AND INSULIN OUTPUT OF INFUSIONS OF AMINOPHYLLINE, GALACTOSE AND GALACTOSE PLUS AMINOPHYLLINE INTO AN ISOLATED IN SITU PORTION OF PANCREAS. Coddling JA, Ashworth MA, Hunter J, Haist RE *Horm Metab Res* 9: 261-6, Jul 77 (Eng) DL/77DEC478

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(complications); CHILD; CORTISONE (adverse effects); DENTAL OCCLUSION, TRAUMATIC (pathology); DIABETES MELLITUS, JUVENILE (complications); FEMALE; FINGERSUCKING (complications); GINGIVITIS (etiology); HUMAN; HYPERPITUITARISM (complications); INFANT; LEAD POISONING (complications); MALE; MERCURY POISONING (complications); MOUTH BREATHING (etiology); MOUTH DISEASES (etiology, pathology); PERIODONTAL DISEASES (etiology, pathology); PUBERTY; REVIEW; SEX HORMONES (pharmacodynamics); SMOKING (complications); STRESS (complications); TONGUE HABITS; TOOTH MIGRATION (etiology); TOOTH (injuries).

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ANIMAL; DIABETES MELLITUS (chemically induced, surgery); ISLANDS OF LANGERHANS (transplantation); METHODS; RATS; RATS, INBRED F344; STREPTOZOTOCIN; TRANSPLANTATION, ISOGENEIC.

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ADULT; AGED; BRAIN DISEASES (physiopathology); COMPARATIVE STUDY; FEMALE; HUMAN; HYPOGLYCEMIA; MALE; MIDDLE AGE; PITUITARY GLAND (physiology); PITUITARY NEOPLASMS (physiopathology); SELLA TURCICA (physiology); SOMATOTROPIN (secretion); STIMULATION, CHEMICAL; TOLBUTAMIDE (pharmacodynamics).

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ACETATES (metabolism); ANIMAL; BUTYRATES (metabolism); CHOLESTEROL (metabolism); CORN; DIETARY FATS (metabolism); FATTY ACIDS (biosynthesis); FATTY ACIDS, NONESTERIFIED (metabolism); MYOCARDIUM (metabolism); OILS (metabolism); PERFUSION; PHOSPHOLIPIDS (metabolism); RATS; TRIGLYCERIDES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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EFFECTS OF HYPOLIPIDEMIC AGENTS ON LIPID SYNTHESIS IN SUBCELLULAR FRACTIONS FROM TETRAHYMENA PYRIFORMIS. Pan HY, Chou SC, Conklin KA *Pharmacology* 14: 499-510, 1976 (Eng) *DL/77DEC309

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ANIMAL; CARBON RADIOISOTOPES; FASTING; GLUCAGON (pharmacodynamics); GLUCONEOGENESIS (drug effects); GUINEA PIGS; ISOTOPE LABELING; KINETICS; LACTATES (metabolism); LIVER (drug effects, metabolism); MALE; OXYGEN CONSUMPTION (drug effects); PERFUSION; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ACIDOSIS (complications); AMINO ACIDS (metabolism); CASE REPORT; GLUCONEOGENESIS; HEXOSE-DIPHOSPHATASE (deficiency, metabolism); HUMAN; INFANT; INFANT, NEWBORN; KETOSIS (complications, metabolism); LACTATES (blood).

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DIABETIC RETINOPATHY (diagnosis, surgery); FLUORESCENCE ANGIOGRAPHY; HUMAN; LASER COAGULATION.

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BILIRUBIN (blood); CAFFEINE (administration & dosage); CALORIC INTAKE; FASTING; FATTY ACIDS, NONESTERIFIED (blood); HEPARIN (administration & dosage); HUMAN; INSULIN (administration & dosage); MALE; NOREPINEPHRINE (administration & dosage); TIME FACTORS.

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ALKYLATION; ANIMAL; ANTILIPEMIC AGENTS (pharmacodynamics); CHEMISTRY; CLOFIBRATE (analogs & derivatives); LIPIDS (blood); MALE; RATS; STRUCTURE-ACTIVITY RELATIONSHIP; VALERATES (pharmacodynamics); XYLENES (pharmacodynamics).

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INSULIN RELEASE DURING POST-TOLBUTAMIDE GLUCOSE TEST. ITS EFFECT IN CHILDREN WITH DECREASED INSULIN RESERVE. Cresto JC, Dujovne IL, Sires JM, Aparicio NJ, De Majo SF *Medicina (B Aires)* 37: 133-8, Mar-Apr 77 (Eng) DL/77DEC615

ADOLESCENCE; CHILD; DIABETES MELLITUS, JUVENILE (diagnosis); DRUG EVALUATION; FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (pharmacodynamics); HUMAN; INJECTIONS, INTRAVENOUS; INSULIN (secretion); ISLANDS OF LANGERHANS (physiology); MALE; STIMULATION, CHEMICAL; TOLBUTAMIDE (pharmacodynamics).

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AUGMENTED GASTRIC INHIBITORY POLYPEPTIDE RESPONSE TO INTRADUODENAL GLUCOSE BY EXOGENOUS GASTRIN AND CHOLECYSTOKININ. Sirinek KR, Cataland S, O'Dorisio TM, Mazzaferri EL, Crockett SE, Pace WG *Surgery* 82: 438-42, Oct 77 (Eng) DL/77DEC718

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ACETONE (analysis, blood); ADOLESCENCE; ADULT; AGED; BREATH TESTS (methods); CHILD; CHROMATOGRAPHY, GAS; DIABETES MELLITUS (diagnosis); FASTING; FEMALE; HUMAN; MIDDLE AGE; OBESITY (diagnosis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ADAPTATION, PSYCHOLOGICAL; ADOLESCENCE; CHILD; DIABETES MELLITUS, JUVENILE; HUMAN; PARENT-CHILD RELATIONS; PATIENTS (education); SOCIAL ADJUSTMENT.

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THE HLA SYSTEM AND DIABETES MELLITUS. Cudworth AG, Woodrow JC *Diabetes Metab* 3: 123-5, Jun 77 (Eng) DL/77DEC449

ADULT; AGE FACTORS; AGED; DIABETES MELLITUS (drug therapy, familial & genetic, immunology); DIABETES MELLITUS, JUVENILE (drug therapy, familial & genetic, immunology); HISTOCOMPATIBILITY ANTIGENS; HL-A; HOMOZYGOTE; HUMAN; INSULIN (therapeutic use); MIDDLE AGE; RISK.

Culebras Fernandez JM

[TOTAL PANCREATECTOMY; ELECTIVE THERAPY IN PANCREATIC DUCT NEOPLASMS] Culebras Fernandez JM *Rev Esp Enferm Apar Dig* 50: 613-20, 15 Jun 77 (Spa) DL/77DEC692

DIABETES MELLITUS (etiology); ENGLISH ABSTRACT; HUMAN; PANCREATECTOMY (methods); PANCREATIC DUCTS (surgery); PANCREATIC NEOPLASMS (surgery); POSTOPERATIVE COMPLICATIONS (poisoning).

Curzon G

DRUGS ALTERING INSULIN SECRETION: EFFECTS ON PLASMA AND BRAIN CONCENTRATIONS OF AROMATIC AMINO ACIDS AND ON BRAIN 5-HYDROXYTRYPTAMINE TURNOVER. Curzon G, Fernando JC *Br J Pharmacol* 60: 401-8, Jul 77 (Eng) DL/77DEC370

AMINO ACIDS (blood, metabolism); ANIMAL; BRAIN CHEMISTRY (drug effects); FATTY ACIDS, NONESTERIFIED (blood); HYDROXYINDOLEACETIC ACID (metabolism); INSULIN (blood, secretion); MALE; PHENTOLAMINE (pharmacodynamics); PHENYLALANINE (metabolism); PROPANOLOL (pharmacodynamics); RATS; SEROTONIN (metabolism); STREPTOZOTOCIN (pharmacodynamics); TOLBUTAMIDE (pharmacodynamics); TRYPTOPHAN (metabolism); TYROSINE (metabolism).

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BIOCHEMICAL BASIS OF FAT CELL INSULIN RESISTANCE IN OBESE RODENTS AND MAN. Czech MP, Richardson DK, Smith CJ *Metabolism* 26: 1057-78, Sep 77 (Eng) DL/77DEC631

ADIPOSE TISSUE (drug effects, metabolism); AGE FACTORS; ANIMAL; FATTY ACIDS (biosynthesis); GLUCOSE (analogs & derivatives, metabolism); GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); HUMAN; INSULIN RESISTANCE; INSULIN (metabolism, pharmacodynamics); LIVER (drug effects, metabolism); MICE; MICE, OBESE, OBESITY (metabolism); PHOSPHOGLUCONATE DEHYDROGENASE (metabolism); RATS; RECEPTORS, INSULIN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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BLOOD CHEMICAL ANALYSIS (instrumentation); HORMONES (blood); SYRINGES.

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INHIBITION OF HEXOKINASE BY MULTISUBSTRATE ANALOGS. Danenberg PV, Danenberg KD *Biochim Biophys Acta* 480: 351-6, 9 Feb 77 (Eng) *DL/77DEC148

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Daniel PM

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FEMALE; FETUS (anatomy & histology); GESTATIONAL AGE; HUMAN; ISLANDS OF LANGERHANS (blood supply); PANCREAS (blood supply); PREGNANCY; VEINS.

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 ENERGY METABOLISM; ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (blood); HUMAN; INTENSIVE CARE UNITS; LIPID MOBILIZATION; PARENTERAL FEEDING.

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LIVER (pathology); FEMALE; GOLGI
APPARATUS (ultrastructure); HUMAN;
HYPERLIPIDEMIA (pathology); LIVER
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(pharmacodynamics); CHOLECYSTOKININ
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(secretion); DIBUTYRYL CYCLIC AMP
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PANCREAS (analysis, metabolism, secretion);
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ABSTRACT; EYE DISEASES (etiology);
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STUDY; DIET, ATHEROGENIC; DIETARY
FATS (administration & dosage); ENGLISH
ABSTRACT; FASTING; FEMALE;
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MALE; MIDDLE AGE; PLATELET
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CLOSTRIDIOPEPTIDASE A (metabolism);
EPITHELIUM (metabolism); FROGS, IN VITRO;
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BRAIN MAPPING; CASTRATION; ELECTRIC
STIMULATION (adverse effects); ENGLISH
ABSTRACT; FEMALE; GLUCOCORTICOIDS
(blood); HYPOTHALAMUS, LIPIDS (blood);
MALE; STRESS, PSYCHOLOGICAL.

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MIDDLE AGE; MYOCARDIAL INFARCT
(etiology, occurrence, prevention & control);
OBESITY; RISK; SMOKING.

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KINASE (metabolism); PROTEIN BINDING;
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TRANSPORT; ACTIVE; CALCIUM
(metabolism); CYTOCHROME C (metabolism);
CYTOCHROME C-1 (metabolism);
CYTOCHROMES (metabolism);
DEXAMETHASONE (pharmacodynamics);
GLUCOSE (pharmacodynamics); HEXOKINASE
(metabolism); KINETICS; MALE; MEMBRANES
(drug effects, metabolism); MITOCHONDRIA,
LIVER (drug effects, metabolism); MODELS,
BIOLOGICAL;
NUCLEOTIDYL TRANSFERASES (metabolism);
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KREBS CYCLE; LYMPHOMA (blood); MALE;
MENSTRUATION; MONOCYTES (metabolism);
PENTOSEPHOSPHATES (metabolism); SEX

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ADOLESCENCE; BODY HEIGHT; CHILD; FEMALE; GROWTH DISORDERS (physiopathology); HUMAN; LIPIDS (metabolism); MALE; PITUITARY GLAND (physiopathology); PITUITARY GLAND, ANTERIOR (physiopathology); SOMATOTROPIN (physiology).

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ERRORS (metabolism); CARBOHYDRATES (metabolism); COLON (metabolism); DIETARY CARBOHYDRATES; DIGESTION; DISACCHARIDES (metabolism); DRUGS; GALACTOSE (diagnostic use); GLUCOSE (diagnostic use); HUMAN; INFANT, NEWBORN; INTESTINAL ABSORPTION; INTESTINAL MUCOSA (metabolism); INTESTINES (growth & development, metabolism); LACTOSE INTOLERANCE (metabolism); LACTOSE (diagnostic use); LACTOSE (metabolism); MALABSORPTION SYNDROMES (diagnosis, metabolism); MODELS, BIOLOGICAL; MONOSACCHARIDES (metabolism); REVIEW; STARCH (metabolism).

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ADULT; DIABETES MELLITUS (metabolism); FEMALE; HUMAN; INSULIN (secretion); MALE; MIDDLE AGE; TIME FACTORS.

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BIOLOGICAL TRANSPORT (drug effects); ELECTRIC CONDUCTIVITY; IONS; KINETICS; MEMBRANE POTENTIALS; MEMBRANES,

Melsom M

ARTIFICIAL; MODELS, BIOLOGICAL; NONACTIN (metabolism); PEPTIDES (metabolism); PERMEABILITY; PHLORETIN (pharmacodynamics); POTASSIUM (metabolism); TETRAPHENYLBORATE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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AGED; ATROPINE (administration & dosage); COMPARATIVE STUDY; DUODENUM (physiology); ENDOSCOPY; GASTRIC JUICE (secretion); GASTROINTESTINAL MOTILITY; GASTROINTESTINAL SYSTEM; GLUCAGON; HUMAN; MALE; MEPERIDINE (administration & dosage); MIDDLE AGE; MOUTH; MUSCLE RELAXATION; PREMEDICATION; SALIVA (secretion); STOMACH (physiology); VOMITING.

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ANDROSTANEDIOL (metabolism); ANIMAL; BINDING; COMPETITIVE; CYTOSOL (metabolism); ESTRADIOL (metabolism); KINETICS; MALE; PITUITARY GLAND (metabolism); PITUITARY GLAND, ANTERIOR (metabolism); RATS; RECEPTORS, ANDROGEN (metabolism); RECEPTORS, ESTROGEN (metabolism); RECEPTORS, STEROID (metabolism); STANOLONE (metabolism); TESTOSTERONE (metabolism).

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[ASPECTS OF METABOLISM AND STATE OF THE ADIPOCYTES IN PATIENTS WITH EXOGENOUS-CONSTITUTIONAL OBESITY] Beul EA, Spesivtseva VG, Meshkov NV, Zubovskii GA, Popova IuP *Sov Med* 41-8, Jun 77 (Rus) DL/77DEC705

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AGED; CASE REPORT; DIABETES MELLITUS (diagnosis); DIAGNOSIS, DIFFERENTIAL; ENGLISH ABSTRACT; FACIAL DERMATOSES (pathology); HUMAN; MALE; NECROBIOSIS LIPOIDICA (diagnosis, pathology, therapy); SCALP DERMATOSES (pathology).

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INCORPORATION OF AMINO ACIDS INTO PROTEIN OF FOETAL RABBIT

DIAPHRAGM: EFFECT OF INSULIN. Metzger P, Brachet EA *Arch Int Physiol Biochim* 84: 333-6, Apr 76 (Eng) DL/77DEC87

AMINO ACIDS (metabolism); ANIMAL; ANIMALS, NEWBORN (metabolism); DIAPHRAGM (embryology, metabolism); FEMALE; GESTATIONAL AGE; INSULIN (pharmacodynamics); MUSCLE PROTEINS (biosynthesis); PREGNANCY; RABBITS; STIMULATION, CHEMICAL.

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[DIABETES AND NERVOUS SYSTEM (AUTHORS TRANSL.)] Meyer A *Praxis* 66: 911-4, 26 Jul 77 (Ger) DL/77DEC669

ADULT; DIABETIC NEUROPATHIES (diagnosis, drug therapy); ELECTROMYOGRAPHY; ENGLISH ABSTRACT; HUMAN; VITAMIN B 12 (therapeutic use).

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ANIMAL; FATTY ACIDS, NONESTERIFIED (blood, isolation & purification); FATTY ACIDS, UNSATURATED (blood); FEMALE; MALE; PROSTAGLANDINS E (pharmacodynamics); RABBITS.

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WHAT ROLE FOR VITRECTOMY IN MANAGING DIABETIC RETINOPATHY Michels RG *Hosp Pract* 12: 73-8, Sep 77 (Eng) DL/77DEC487

DIABETES MELLITUS (complications); DIABETIC RETINOPATHY (etiology, surgery); HUMAN; METHODS; VITREOUS BODY (surgery).

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[NITROGEN, CARBOHYDRATE AND LIPID METABOLIC INDICES IN MAN DURING A PROLONGED STAY UNDER HYPERBARIC CONDITIONS] Petrovskiy VA, Shovkoplias OA, Mikhelson DA, Aronova EN *Kosm Biol Aviakosm Med* 11: 48-50, Jan-Feb 77 (Rus) *DL/77DEC269

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[STUDIES OF THE LEVEL OF SOMATOTROPIC AND PLACENTAL LACTOGENIC HORMONES IN PREGNANT DIABETICS] Chernev T, Milanov S *Akush Ginekol (Sofia)* 16: 174-7, 1977 (Bul) DL/77DEC811

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ADULT; DIABETES MELLITUS (complications, metabolism); DIABETES MELLITUS, JUVENILE (complications, metabolism); FEMALE; HUMAN; HYPERLIPEMIA (complications); MALE; MIDDLE AGE.

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[THE STUDY OF BONE DENSITY AND THE INTESTINAL ABSORPTION OF CALCIUM AS A FUNCTION OF AGE AND SEX BY ISOTOPIC METHODS: APPLICATION TO A POPULATION OF DIABETICS] Monnier L, Chevallet M, Huh KB, Mion C, Miroze J *Probi Actuals Endocrinol Nutr* 307-16, 1977 (Fre) DL/77DEC676

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[THE EFFECTS OF ACTH, AMINOGLUTETHIMIDE AND HYPOPHYSECTOMY ON THE RAT ADRENAL LIPIDS (AUTHORS TRANSL.)] Miyachi Y *Folia Endocrinol Jpn* 52: 973-82, 20 Oct 76 (Jpn) *DL/77DEC202

ADRENAL GLANDS (metabolism, secretion); AMINOGLUTETHIMIDE (pharmacodynamics); ANIMAL; CHOLESTEROL ESTERS (metabolism); COMPARATIVE STUDY; CORTICOTROPIN (pharmacodynamics); ENGLISH ABSTRACT; FATTY ACIDS (metabolism); HYPOPHYSECTOMY; LIPIDS (metabolism); MALE; ORGAN WEIGHT; PHOSPHOLIPIDS (metabolism); RATS; TRIGLYCERIDES (metabolism).

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SUCROSE (metabolism); UNITED STATES
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EXTRACELLULAR SPACE (metabolism);
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physiopathology); KIDNEY (metabolism);
LACTATES (metabolism); LIVER (metabolism);
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PROLACTIN (blood); SOMATOTROPIN
(blood); THYROID HORMONES (blood);
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effects, ultrastructure); LYSOSOMES (drug
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RATS; UNITED STATES GOVERNMENT
SUPPORTED, N.I.H.; UNITED STATES
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AMP (pharmacodynamics); GUANOSINE
CYCLIC 3',5' MONOPHOSPHATE (cytology);
ISOENZYMES (isolation & purification,
metabolism); PHOSPHODIESTERASES (isolation
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ADULT; CHOLESTEROL (blood); DIETARY CARBOHYDRATES; DIETARY FATS; FEMALE; HUMAN; KIDNEY FAILURE, CHRONIC (blood, diet therapy); LIPOPROTEINS, VLDL (metabolism); MALE; MIDDLE AGE; TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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(pharmacodynamics); GASTROINTESTINAL HORMONES (metabolism); GLUCAGON (pharmacodynamics); GLUCOSE (administration & dosage, diagnostic use, pharmacodynamics); INFUSIONS, PARENTERAL; PENTAGASTRIN (pharmacodynamics); SECRETIN (pharmacodynamics); SODIUM CHLORIDE (pharmacodynamics); STIMULATION, CHEMICAL.

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ANIMAL; BLOOD CHEMICAL ANALYSIS (instrumentation); BLOOD SUGAR (analysis); ELECTRODES, IMPLANTED; GLUCOSE (metabolism); IN VITRO; MALE; RABBITS.

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AGED; CASE REPORT; DIABETIC COMA (etiology); FEMALE; HUMAN; MALE; MIDDLE AGE; MYOCARDIAL INFARCT (complications).

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ACETATES (metabolism); ANIMAL; AORTA (metabolism); CELLS, CULTURED; CHOLESTEROL (biosynthesis); GLUCOSE (pharmacodynamics); INSULIN (pharmacodynamics); MALE; MEVALONIC ACID (analogs & derivatives, metabolism); MUSCLE, SMOOTH (metabolism); RATS; STEROLS (biosynthesis).

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[HISTOPATHOMORPHOLOGIC CHANGES IN THE ORGANS AND TISSUES OF LABORATORY ANIMALS RECEIVING AN ARTIFICIAL DIET WITH A LOW SELENIUM AND VITAMIN E CONTENT] Suchkov BP, Shevchuk IA, Mardar AI *Vopr Pitan* 33-41, Mar-Apr 77 (Rus) DL/77DEC746

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ANIMAL; BLASTOCYST (physiology); BLOOD (physiology); CASTRATION; CELL SURVIVAL; COMPARATIVE STUDY; ESTRADIOL (physiology); EXTRACELLULAR SPACE (physiology); FEMALE; IN VITRO; INSULIN (physiology); OVARY (physiology); PREGNANCY; PREGNANCY, ANIMAL; PRENIDATION PHASE, ANIMAL; PROGESTERONE (physiology); RATS; UTERUS (physiology).

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ADENINE NUCLEOTIDES (metabolism); ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; ISLANDS OF LANGERHANS (metabolism); MALE; PHOSPHORUS (metabolism); RATS; SUBCELLULAR FRACTIONS (metabolism); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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LIVER CYSTS IN STREPTOZOTOCIN-TREATED RATS [LETTER] Sutherland DE, Matas AJ, Steffes MW, Najarian JS *Transplantation* 24: 162-3, Aug 77 (Eng) DL/77DEC730

ANIMAL; CYSTS (chemically induced); DIABETES MELLITUS (chemically induced); LIVER DISEASES (chemically induced); LIVER (drug effects); RATS; RATS, INBRED LEW; STREPTOZOTOCIN (toxicity).

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DOSE-RESPONSE RELATIONSHIP, DRUG ; DRUG INTERACTIONS; FATTY ACIDS (pharmacodynamics); FATTY ACIDS, UNSATURATED (pharmacodynamics); GLYCEROPHOSPHATES (metabolism); HUMAN; LYMPHOCYTE TRANSFORMATION (drug effects); LYMPHOCYTES (metabolism); MYRISTATES (pharmacodynamics); PLANT AGGLUTININS (pharmacodynamics); SERUM ALBUMIN, BOVINE (pharmacodynamics); TIME FACTORS.

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Wood JM

URACIL NUCLEOTIDES (metabolism);
URIDINE DIPHOSPHATE GLUCOSE
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(pharmacodynamics); CATTLE; COENZYME A
(pharmacodynamics); ENZYME ACTIVATION
(drug effects); HEXANOIC ACIDS
(pharmacodynamics); KINETICS;
MYOCARDIUM (enzymology); PALMITIC
ACIDS (pharmacodynamics); POTASSIUM
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metabolism); MITOCHONDRIA, MUSCLE (drug
effects, metabolism); MYOCARDIUM; OXYGEN
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GLUCOSE (diagnostic use, metabolism); MALE;
RATS; TIME FACTORS.

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(analysis); CELL TRANSFORMATION,
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DEOXY SUGARS (metabolism);
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CHEMICAL ANALYSIS; BLOOD SUGAR
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ABSORPTION; ISOTOPE LABELING;
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metabolism); LIPIDS (metabolism); OBESITY
(metabolism).

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